

OICE

RAW SEQUENCE LISTING

DATE: 07/18/2001

PATENT APPLICATION: US/09/898,456

TIME: 12:46:48

Input Set : A:\LEX-0198-USA SEQUENCE LISTING.txt

Output Set: N:\CRF3\07182001\I898456.raw

ENTERED

4 <110> APPLICANT: Friddle, Carl Johan
5 Hilbun, Erin
6 Scoville, John
7 Walke, D. Wade
9 <120> TITLE OF INVENTION: Novel Human Secreted Signal Proteins and Polynucleotides
Encoding the
10 Same
12 <130> FILE REFERENCE: LEX-0198-USA
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/898,456
C--> 14 <141> CURRENT FILING DATE: 2002-07-03
14 <150> PRIOR APPLICATION NUMBER: US 60/216,384
15 <151> PRIOR FILING DATE: 2000-07-07
17 <150> PRIOR APPLICATION NUMBER: US 60/219,890
18 <151> PRIOR FILING DATE: 2000-07-21
20 <150> PRIOR APPLICATION NUMBER: US 60/230,609
21 <151> PRIOR FILING DATE: 2000-09-06
23 <160> NUMBER OF SEQ ID NOS: 24
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1272
29 <212> TYPE: DNA
30 <213> ORGANISM: homo sapiens
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34 ccgatctggt ggtcgctggc tgttggggcca cagtattcct ccctgggctc gcagcccatc 120
35 ctgtgtgcca gcatcccggt cctgggtcccc aagcagctcc gcttctgcag gaactacgtg 180
36 gagatcatgc ccagcgtggc cgagggcata aagattggca tccaggagtg ccagcaccag 240
37 ttccgcggcc gccggtggaa ctgcaccacc gtccacgaca gcctggccat cttcggggcc 300
38 gtgctggaca aagctaccag ggagtcggcc tttgtccacg ccattgcctc agccggtgtg 360
39 gcctttgcag tgacacgctc atgtgcagaa ggcacggccg ccattctgtg ctgcagcagc 420
40 cgcaccagg gctcaccagg caagggctgg aagtggggtg gctgtagcga ggacatcgag 480
41 tttggtggga tgggtgtctg ggagttcgcc gacgcccggg agaaccggcc agatgcccgc 540
42 tcagccatga accgccacaa caacgaggct gggcgccagg ccattcgccag ccacatgcac 600
43 ctcaagtgca agtgccacgg gctgtcgggc agctgcgagg tgaagacatg ctggtggtcg 660
44 caaccgcgact tccgcgccat cggtgacttc ctcaaggaca agtacgacag cgcctcggag 720
45 atggtggtgg agaagcaccg ggagtcgccg ggtggggtg agaccctgcg gccgcgctac 780
46 acctacttca aggtgcccac ggagcgcgac ctggtctact acgaggcctc gcccaacttc 840
47 tgcgagccca accctgagac gggctccttc ggcacgcgcg accgcacctg caacgtcagc 900
48 tcgcacggca tcgacggctg cgacctgctg tgcgtcggcc gcggccacaa cgcgcgagcg 960
49 gagcggcgcc gggagaagtg ccgctgcgtg ttccactggt gctgctacgt cagctgccag 1020
50 gagtgcacgc gctctacga cgtgcacacc tgcgaaggat gatgcctcag gacagggcac 1080
51 tcagggtccct cgtggagtct tgccttgatc tggagccctg gatcccgagg gcatgacctc 1140
52 ctggagcaac ttccaaggtc tgggggacta ggtcagtggt cctccctgca gaactggact 1200
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54 gacacttcct ag 1272
56 <210> SEQ ID NO: 2
57 <211> LENGTH: 423
58 <212> TYPE: PRT

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59 <213> ORGANISM: homo sapiens
61 <400> SEQUENCE: 2
62 Met Ala Pro Leu Gly Tyr Phe Leu Leu Leu Cys Ser Leu Lys Gln Ala
63 1 5 10 15
64 Leu Gly Ser Tyr Pro Ile Trp Trp Ser Leu Ala Val Gly Pro Gln Tyr
65 20 25 30
66 Ser Ser Leu Gly Ser Gln Pro Ile Leu Cys Ala Ser Ile Pro Gly Leu
67 35 40 45
68 Val Pro Lys Gln Leu Arg Phe Cys Arg Asn Tyr Val Glu Ile Met Pro
69 50 55 60
70 Ser Val Ala Glu Gly Ile Lys Ile Gly Ile Gln Glu Cys Gln His Gln
71 65 70 75 80
72 Phe Arg Gly Arg Arg Trp Asn Cys Thr Thr Val His Asp Ser Leu Ala
73 85 90 95
74 Ile Phe Gly Pro Val Leu Asp Lys Ala Thr Arg Glu Ser Ala Phe Val
75 100 105 110
76 His Ala Ile Ala Ser Ala Gly Val Ala Phe Ala Val Thr Arg Ser Cys
77 115 120 125
78 Ala Glu Gly Thr Ala Ala Ile Cys Gly Cys Ser Ser Arg His Gln Gly
79 130 135 140
80 Ser Pro Gly Lys Gly Trp Lys Trp Gly Gly Cys Ser Glu Asp Ile Glu
81 145 150 155 160
82 Phe Gly Gly Met Val Ser Arg Glu Phe Ala Asp Ala Arg Glu Asn Arg
83 165 170 175
84 Pro Asp Ala Arg Ser Ala Met Asn Arg His Asn Asn Glu Ala Gly Arg
85 180 185 190
86 Gln Ala Ile Ala Ser His Met His Leu Lys Cys Lys Cys His Gly Leu
87 195 200 205
88 Ser Gly Ser Cys Glu Val Lys Thr Cys Trp Trp Ser Gln Pro Asp Phe
89 210 215 220
90 Arg Ala Ile Gly Asp Phe Leu Lys Asp Lys Tyr Asp Ser Ala Ser Glu
91 225 230 235 240
92 Met Val Val Glu Lys His Arg Glu Ser Arg Gly Trp Val Glu Thr Leu
93 245 250 255
94 Arg Pro Arg Tyr Thr Tyr Phe Lys Val Pro Thr Glu Arg Asp Leu Val
95 260 265 270
96 Tyr Tyr Glu Ala Ser Pro Asn Phe Cys Glu Pro Asn Pro Glu Thr Gly
97 275 280 285
98 Ser Phe Gly Thr Arg Asp Arg Thr Cys Asn Val Ser Ser His Gly Ile
99 290 295 300
100 Asp Gly Cys Asp Leu Leu Cys Cys Gly Arg Gly His Asn Ala Arg Ala
101 305 310 315 320
102 Glu Arg Arg Arg Glu Lys Cys Arg Cys Val Phe His Trp Cys Cys Tyr
103 325 330 335
104 Val Ser Cys Gln Glu Cys Thr Arg Val Tyr Asp Val His Thr Cys Lys
105 340 345 350
106 Asp Gly Cys Leu Arg Thr Gly His Ser Gly Pro Cys Arg Ser Leu Ala
107 355 360 365
108 Trp Ile Trp Ser Pro Gly Ser Gln Gly His Asp Leu Leu Glu Gln Leu

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109      370      375      380
110 Pro Arg Ser Gly Gly Leu Gly Gln Cys Ser Ser Leu Gln Asn Trp Thr
111 385      390      395      400
112 Ala Val Ser Gly Cys Leu Arg Asp His Leu Gly Gly Leu Pro Gly Gly
113      405      410      415
114 Gly Glu His Gly Asp Thr Ser
115      420
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 1059
119 <212> TYPE: DNA
120 <213> ORGANISM: homo sapiens
122 <400> SEQUENCE: 3
123 atggcccccac tcggatactt cttactcctc tgcagcctga agcaggctct gggcagctac      60
124 ccgatctggt ggtcgctggc tgttgggcca cagtattcct ccctgggctc gcagcccatc      120
125 ctgtgtgcca gcatcccggg cctgggtcccc aagcagctcc gcttctgcag gaactacgtg      180
126 gagatcatgc ccagcgtggc cgagggcatc aagattggca tccaggagtg ccagcaccag      240
127 ttccgcggcc gccggtggaa ctgcaccacc gtccaagaca gcctggccat cttcggggcc      300
128 gtgctggaca aagctaccag ggagtcggcc tttgtccacg ccattgcctc agccgggtgtg      360
129 gcctttgcag tgacacgctc atgtgcagaa ggcaaggccg ccattctgtg ctgcagcagc      420
130 cgccaccagg gctcaccagg caagggctgg aagtgggggtg gctgtagcga ggacatcgag      480
131 tttgggtggga tgggtgtctcg ggagttcgcc gacgcccggg agaaccggcc agatgcccg      540
132 tcagccatga accgccacaa caacgaggct gggcgccagg ccacgcagc ccacatgcac      600
133 ctcaagtgca agtgccacgg gctgtcgggc agctgcgagg tgaagacatg ctggtggtcg      660
134 caaccgcgact tccgcgccat cgggtgacttc ctcaaggaca agtacgacag cgcctcggag      720
135 atggtggtgg agaagcaccg ggagtcgccg ggctgggtgg agaccctgcg gccgcgctac      780
136 acctacttca aggtgcccac ggagcgcgac ctggtctact acgaggcctc gcccaacttc      840
137 tgcgagccca accctgagac gggctccttc ggcacgcgag accgcacctg caacgtcagc      900
138 tcgcacggga tcgacggctg cgacctgctg tgctgcggcc gcggccacaa cgcgcgagcg      960
139 gagcggcgcc gggagaagtg ccgctgcgtg ttccactggt gctgctacgt cagctgccag      1020
140 gagtgcacgc gcgtctacga cgtgcacacc tgcaagtag      1059
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 352
144 <212> TYPE: PRT
145 <213> ORGANISM: homo sapiens
147 <400> SEQUENCE: 4
148 Met Ala Pro Leu Gly Tyr Phe Leu Leu Leu Cys Ser Leu Lys Gln Ala
149 1      5      10      15
150 Leu Gly Ser Tyr Pro Ile Trp Trp Ser Leu Ala Val Gly Pro Gln Tyr
151      20      25      30
152 Ser Ser Leu Gly Ser Gln Pro Ile Leu Cys Ala Ser Ile Pro Gly Leu
153      35      40      45
154 Val Pro Lys Gln Leu Arg Phe Cys Arg Asn Tyr Val Glu Ile Met Pro
155      50      55      60
156 Ser Val Ala Glu Gly Ile Lys Ile Gly Ile Gln Glu Cys Gln His Gln
157 65      70      75      80
158 Phe Arg Gly Arg Arg Trp Asn Cys Thr Thr Val His Asp Ser Leu Ala
159      85      90      95
160 Ile Phe Gly Pro Val Leu Asp Lys Ala Thr Arg Glu Ser Ala Phe Val
161      100      105      110

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162 His Ala Ile Ala Ser Ala Gly Val Ala Phe Ala Val Thr Arg Ser Cys
163      115      120      125
164 Ala Glu Gly Thr Ala Ala Ile Cys Gly Cys Ser Ser Arg His Gln Gly
165      130      135      140
166 Ser Pro Gly Lys Gly Trp Lys Trp Gly Gly Cys Ser Glu Asp Ile Glu
167 145      150      155      160
168 Phe Gly Gly Met Val Ser Arg Glu Phe Ala Asp Ala Arg Glu Asn Arg
169      165      170      175
170 Pro Asp Ala Arg Ser Ala Met Asn Arg His Asn Asn Glu Ala Gly Arg
171      180      185      190
172 Gln Ala Ile Ala Ser His Met His Leu Lys Cys Lys Cys His Gly Leu
173      195      200      205
174 Ser Gly Ser Cys Glu Val Lys Thr Cys Trp Trp Ser Gln Pro Asp Phe
175      210      215      220
176 Arg Ala Ile Gly Asp Phe Leu Lys Asp Lys Tyr Asp Ser Ala Ser Glu
177 225      230      235      240
178 Met Val Val Glu Lys His Arg Glu Ser Arg Gly Trp Val Glu Thr Leu
179      245      250      255
180 Arg Pro Arg Tyr Thr Tyr Phe Lys Val Pro Thr Glu Arg Asp Leu Val
181      260      265      270
182 Tyr Tyr Glu Ala Ser Pro Asn Phe Cys Glu Pro Asn Pro Glu Thr Gly
183      275      280      285
184 Ser Phe Gly Thr Arg Asp Arg Thr Cys Asn Val Ser Ser His Gly Ile
185      290      295      300
186 Asp Gly Cys Asp Leu Leu Cys Cys Gly Arg Gly His Asn Ala Arg Ala
187 305      310      315      320
188 Glu Arg Arg Arg Glu Lys Cys Arg Cys Val Phe His Trp Cys Cys Tyr
189      325      330      335
190 Val Ser Cys Gln Glu Cys Thr Arg Val Tyr Asp Val His Thr Cys Lys
191      340      345      350

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193 <210> SEQ ID NO: 5

194 <211> LENGTH: 1505

195 <212> TYPE: DNA

196 <213> ORGANISM: homo sapiens

198 <400> SEQUENCE: 5

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200 gccgcgccag ctcccagggc ccggccccc ccggcgctca cgctctcggg gcggactccc      120
201 ggccctccgc gccctctcgc gcggcgatgg cccactcgg atacttctta ctctctgca      180
202 gcctgaagca ggctctgggc agctaccgca tctggtggtc gctggctgtt gggccacagt      240
203 attcctccct gggctcgcag cccatcctgt gtgccagcat cccgggcctg gtccccaagc      300
204 agctccgctt ctgcaggaac tacgtggaga tcatgccag cgtggccgag ggcataaga      360
205 ttggcatcca ggagtgccag caccagttcc gcggccgccg gtggaactgc accaccgtcc      420
206 acgacagcct ggccatcttc gggcccgtgc tggacaaagc taccaggag tcggcctttg      480
207 tccacgccat tgctcagcc ggtgtggcct ttgcagtgc acgctcatgt gcagaaggca      540
208 cgcccgccat ctgtggctgc agcagccgcc accagggtc accaggcaag ggctggaagt      600
209 ggggtggctg tagcgaggac atcgagtttg gtgggatggt gtctcgggag ttcgccgacg      660
210 cccgggagaa ccggccagat gccgcgtcag ccatgaaccg ccacaacaac gaggtgggc      720
211 gccaggccat cgccagccac atgcacctca agtgcaagtg ccacgggctg tcgggcagct      780
212 gcgaggtgaa gacatgctgg tggtcgcaac ccgacttccg cgccatcggg gacttcctca      840

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213 aggacaagta cgacagcgcc tcggagatgg tggaggagaa gcaccgggag tcccgcggt 900
214 gggaggagac cctgcggccg cgctacacct acttcaaggt gccacggag cgcgacctgg 960
215 tctactacga ggctcgccc aacttctgcg agcccaaccc tgagacgggc tccttcggca 1020
216 cgcgcgaccg cacctgcaac gtcagctcgc acggcatcga cggctgcgac ctgctgtgct 1080
217 gcggccgagg ccacaacgag cgagcggagc ggcgcgggga gaagtgcgcg tgcgtgttcc 1140
218 actggtgctg ctacgtcagc tgccaggagt gcacgcgcgt ctacgacgtg cacacctgca 1200
219 aggatggatg cctcaggaca gggcactcag gtccctgtcg gagtcttgct tggatctgga 1260
220 gccctggatc ccaggggcat gacctcctgg agcaacttcc aaggctctgg ggactaggtc 1320
221 agtgttccct cctgcagaac tggactgctg tcagtggctg ccttcgggat catctgggag 1380
222 ggcttccagg aggaggtgag catggggaca ctctctaggg ctccaacatc ctctgtaat 1440
223 tctgagattg catccctgca gacgccagga aaaaagtggg ttcccatggc agccggggag 1500
224 ccctc 1505

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226 <210> SEQ ID NO: 6

227 <211> LENGTH: 1110

228 <212> TYPE: DNA

229 <213> ORGANISM: homo sapiens

231 <400> SEQUENCE: 6

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233 caaggaggcc cccattgtct catcccccatt cacctctgcc tcactttttc tctttttggt 120
234 aggtcagtg acaatttcct gataacaggt cccaaggcct atctgacctc cagcactagt 180
235 gtggccttgg gtgcccagag tggcatcgag gagtgcgaagt tccagtttgc ttgggaacgc 240
236 tggaaactgcc ctgaaaatgc tcttcagctc tccaccacaa acaggctgag aagtgtctacc 300
237 agagagactt ccttcataca tgctatcagc tctgtctggag tcatgtacat catcaccaag 360
238 aactgtagca tgggtgactt cgaaaactgt ggctgtgatg ggtcaaacaa tggaaaaaca 420
239 ggaggccatg gctggatctg gggaggctgc agcgacaatg tggaaatttg ggaaaggatc 480
240 tccaaaactct ttgtggacag tttggagaag gggaaggatg ccagagccct gatgaatctt 540
241 cacaacaaca gggccggcag actggcagtg agagccacca tgaaaaggac atgcaaagt 600
242 catggcatct ctgggagctg cagcatacag acatgtctggc tgcagctggc tgaattccgg 660
243 gagatgggag actacctaaa ggccaagtat gaccaggcgc tgaaaattga aatggataag 720
244 cggcagctga gagctgggaa cagcgcgcag ggcactggg tgcccgtga ggccttccct 780
245 cctagcgcag aggcggaact gatcttttta gaggaatcac cagattactg tacctgcaat 840
246 tccagcctgg gcatctatgg cacagagggt cgtgagtgcc tacagaacag ccacaacaca 900
247 tccaggtggg agcgacgtag ctgtgggagc ctgtgactg agtgtgggct gcagggtgaa 960
248 gagaggaaaa ctgaggtcat aagcagctgt aactgcaaat tccagtgggt ctgtacggtc 1020
249 aagtgtgacc agtgtaggca tgtggtgagc aagtattact gcgcacgctc cccaggcagt 1080
250 gccagctccc tgggtaaggg cagtgcctga 1110

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252 <210> SEQ ID NO: 7

253 <211> LENGTH: 369

254 <212> TYPE: PRT

255 <213> ORGANISM: homo sapiens

257 <400> SEQUENCE: 7

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259 1 5 10 15
260 Leu Thr Pro Cys Gln Gly Gly Pro His Cys Leu Ile Pro Ile His Leu
261 20 25 30
262 Cys Leu Thr Phe Ser Leu Phe Gly Arg Ser Val Asn Asn Phe Leu Ile
263 35 40 45
264 Thr Gly Pro Lys Ala Tyr Leu Thr Tyr Thr Thr Ser Val Ala Leu Gly
265 50 55 60

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VERIFICATION SUMMARY

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Input Set : A:\LEX-0198-USA SEQUENCE LISTING.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date